

COMPUTER ENGINEERING CURRICULUM SHEET | FALL 2014

FRESHMAN (31)

FALL			SPRING		
CSCE 145*	Intro. Algorithmic Design I	4	CSCE 146*	Intro. Algorithmic Design II	4
CSCE 190	Computing in Modern World	1	CSCE 215*	UNIX/Linux Fundamentals	1
ENGL 101*	Critical Reading & Composition	3	ENGL 102*	Rhetoric & Composition	3
MATH 141*	Calculus I	4	MATH 142*	Calculus II	4
CHEM 111&L*	General Chemistry I & Lab	4	ELECTIVE	AIU Aest. & Intr. Understanding	3
		16			15

SOPHOMORE (32)

FALL			SPRING		
CSCE 211*	Digital Logic Design	3	CSCE 212*	Intro to Comp. Architecture	3
CSCE 240*	Intro. to Software Engineering	3	PHYS 212&L*	Essentials of Physics II & Lab	4
MATH 241*	Vector Calculus	3	MATH 242*	Elem. Differential Equations	3
PHYS 211&L*	Essentials of Physics I & Lab	4	CSCE 274*	Robotic Applications & Design	3
ELCT 102*	Electrical Science	3	ELCT 221*	Circuits	3
		16			16

JUNIOR (31)

FALL			SPRING		
CSCE 311	Operating Systems	3	CSCE 313	Embedded Systemes	3
MATH 374	Discrete Structures	3	CSCE 317	Systems Engineering	3
ELCT 222	Signals and Systems	3	CSCE 350	Data Structures & Algorithms	3
SPCH 140	Public Communication [CMS]	3	CSCE 390	Prof. Issues in CSCE [VSR]	1
STAT 509	Statistics for Engineers	3	ELCT 371	Electronics	3
		15	ENGL 462/3	Technical/Business Writing	3
					16

SENIOR (30)

FALL			SPRING		
CSCE 490	Capstone Software Engr. Proj. I	3	CSCE 492	Capstone Software Engr. Proj. II	3
CSCE 416	Networks	3	CSCE xxx	CSCE Elective	3
CSCE 611	Advanced Digital Design	3	CSCE xxx	CSCE Elective	3
CSCE xxx	CSCE Elective	3	MATH 5xx	MATH elective	3
ELECTIVE	GSS Social Science	3	ELECTIVE	GHS Historical Thinking	3
		15			15

ADDITIONAL REQUIREMENTS (0-12)

These additional University requirements may be satisfied through overlay courses, by placement testing, or by stand alone courses beyond the curriculum requirements above.

INF Information Literacy

USC ENGL 102, or other approved Carolina Core INF overlay or stand alone course.

GFL Global Citizenship and Multicultural Understanding: Foreign Language

Score of two or better on foreign language test, or equivalent study of approved Carolina Core GFL course(s).

VSR Values, Ethics and Social Responsibility

CSCE 390 or approved Carolina Core VSR overlay or stand alone course.

* Indicates a lower division course to be completed before junior level courses.

CSCE Major Electives (9 hours)

CSCE 330, 355, ELCT 321, ELCT 331, and most CSCE course numbered 510 or higher.

MATH Elective (3 hours)

MATH 526, 527, 544, or CSCE 561. Other courses in linear algebra or numerical analysis may be substituted with permission of the department.

Curriculum Notes

C or better is required in ENGL 101, 102, MATH 141, 142, 374, PHYS 211 & L, ELCT 221, and all CSCE courses.

CSCE 101 and 102 are not degree applicable.

SPCH 140 meets CMS: Spoken Component for Carolina Core.

MATH 174 **is not** a substitute for MATH 374.

CSCE 390 is a VSR option.

Carolina Core (31-36 hours)

AIU: Aesthetic & Interpretive Understanding any approved Carolina Core course for AIU	GHS: Global Citizenship Historical Thinking any approved Carolina Core course for GHS
ARP: Analytical Reasoning & Prob. Solving MATH 141, MATH 142	GSS: Global Citizenship Social Science any approved Carolina Core course for GSS
CMW: Communication - Writing ENGL 101, ENGL 102	SCI: Scientific Literacy PHYS 211 & L, PHYS 212 & L
GFL: Global Citizenship - Foreign Language Score of "2" or better on FLPT, any approved Carolina Core course(s) for GFL	